

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
10 June 2004 (10.06.2004)

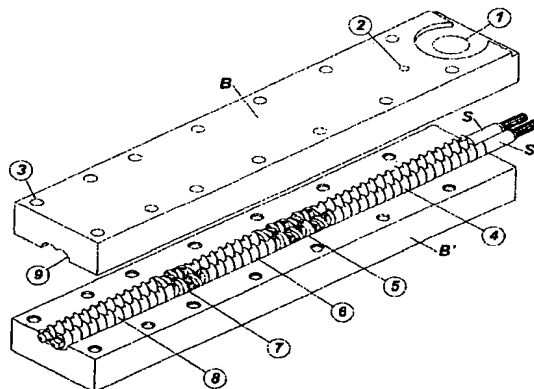
PCT

(10) International Publication Number
WO 2004/047974 A1

- (51) International Patent Classification⁷: **B01J 2/10**, 969, B-9000 Gent (BE). VERMEIRE, An [BE/BE]; Ulsbeerlaan 19, B-9850 Nevele (BE).
- (21) International Application Number: PCT/EP2003/013327 (74) Agents: BIRD, Ariane et al.; Bird Goën & Co, Klein Dalenstraat 42A, B-3020 Winksele (BE).
- (22) International Filing Date: 26 November 2003 (26.11.2003) (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data: 60/429,214 26 November 2002 (26.11.2002) US (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (for all designated States except US): UNIVERSITEIT GENT [BE/BE]; St. Pietersnieuwstraat 25, B-9000 Gent (BE).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): REMON, Jean-Paul [BE/BE]; John Youngestraat 14, B-9090 Melle (BE). VERVAET, Chris [BE/BE]; Pieter Pruimstraat 11, B-8870 Kachtem (BE). KELEB, Eseldin [LY/BE]; Kikvorsstraat
- Published:
— with international search report

[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR CONTINUOUS WET GRANULATION OF POWER MATERIAL



(57) Abstract: An apparatus for wet granulating a powder material comprises: - a barrel having a granulation chamber and being provided with a first inlet (1) for receiving said powder material and for supplying it to said granulation chamber and with a second inlet (2) for receiving a granulating liquid and for supplying it to said granulation chamber, said granulation having an aperture (9) for discharge of granules from said barrel, and - a transporting means (S) for advancing said powder material toward the end of said granulation chamber while granulating it with the aid of said granulating liquid, said transporting means (S) comprising a first transport zone (4) at its rear end, an agglomeration zone (5) downstream from the first transport zone (4) and a second transport zone (8) at its front end, said first inlet (1) and said second inlet (2) being positioned above the first transport zone (4), wherein said aperture (9) has a shape tightly fitting the terminal portion of the transporting means (S) for directly discharging said granules from the granulation chamber. The apparatus is useful for continuously wet granulating biologically-active ingredient formulations, chemicals, detergents and foodstuffs.

WO 2004/047974 A1



— before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.